

## MERAMEC RIVER BASIN

07017605 COONVILLE CREEK AT ST. FRANCOIS STATE PARK

(Ambient water-quality monitoring network)

## WATER-QUALITY RECORDS

LOCATION.--Lat 37°58'04", long 90°32'00", in sec.25, T.38 N., R.4 E., St. Francois County, Hydrologic Unit 07140104, at first set of culverts on park road off U.S. Route 67.

PERIOD OF RECORD.--November 1992 to current year.

## WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	TIME	DIS-CHARGE, INST. (CUBIC FEET PER SECOND) (00061)	TEMPER-ATURE WATER (DEG C) (00010)	SPE-CIFIC CON-DUCT-ANCE (µS/cm) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	OXYGEN, DIS-SOLVED (mg/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT (HIGH SATUR-ATION) (mg/L) (00301)	OXYGEN DEMAND, CHEM-ICAL (HIGH LEVEL) (mg/L) (00340)	COLI-FORM, FECAL, 0.7 µm-MF (COLS./100 mL) (31625)	STREP-TOCOCCHI, KF AGAR (COLS. PER 100 mL) (31673)	ALKA-LINITY WAT WH TOT FET FIELD (mg/L as CaCO <sub>3</sub> ) (00410)
NOV 1996											
13...	1015	0.88	6.0	475	8.05	10.7	84	--	K13	23	242
JAN 1997											
28...	1140	10	1.0	239	7.77	11.9	83	12	40	K520	60
MAR											
11...	0745	2.9	6.5	438	7.93	11.4	93	--	36	K15	211
APR											
02...	0720	3.0	13.0	446	8.04	11.0	103	--	K2	K4	210
JUN											
18...	1600	10	20.0	285	8.01	8.7	95	5	165	380	131
AUG											
21...	1225	2.2	18.5	501	7.97	7.6	80	--	33	245	245
DATE		BICAR-BONATE WATER WH IT FIELD (mg/L as HCO <sub>3</sub> ) (00450)	CAR-BONATE WATER WH IT FIELD (mg/L as CO <sub>3</sub> ) (00447)	NITRO-GEN, NO <sub>2</sub> +NO <sub>3</sub> TOTAL (mg/L as N) (00630)	NITRO-GEN, NITRITE TOTAL (mg/L as N) (00615)	NITRO-GEN, AMMONIA TOTAL (mg/L as N) (00610)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (mg/L as N) (00625)	PHOS-PHORUS TOTAL (mg/L as P) (00665)	PHOS-PHORUS ORTHO TOTAL (mg/L as P) (70507)	HARD-NESS TOTAL (mg/L as CaCO <sub>3</sub> ) (00900)	CALCIUM DIS-SOLVED (mg/L as Ca) (00915)
NOV 1996											
13...		292	0	0.040	<0.010	0.010	<0.20	<0.020	<0.010	--	--
JAN 1997											
28...		74	0	0.160	<0.010	<0.010	<0.20	<0.020	<0.010	110	24
MAR											
11...		259	0	0.060	<0.010	<0.010	<0.20	0.040	0.010	--	--
APR											
02...		260	0	0.020	<0.010	<0.010	<0.20	<0.020	<0.010	--	--
JUN											
18...		161	0	0.050	<0.010	0.010	0.22	<0.020	0.010	140	30
AUG											
21...		301	0	0.130	<0.010	0.010	<0.20	<0.020	0.010	--	--
DATE		MAGNE-SIUM, DIS-SOLVED (mg/L as Mg) (00925)	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	POTAS-SIUM, DIS-SOLVED (mg/L as K) (00935)	SULFATE DIS-SOLVED (mg/L as SO <sub>4</sub> ) (00945)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl) (00940)	FLUO-RIDE, DIS-SOLVED (mg/L as F) (00950)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (mg/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	ALUM-INUM, TOTAL RECOV-ERABLE (µg/L as Al) (01105)	ALUM-INUM, DIS-SOLVED (µg/L as Al) (01106)
JAN 1997											
28...		13	5.1	0.90	13	9.1	<0.10	158	4	150	58
JUN											
18...		17	3.7	0.90	10	10	<0.10	178	3	140	44
DATE		CADMIUM TOTAL RECOV-ERABLE (µg/L as Cd) (01027)	CADMIUM DIS-SOLVED (µg/L as Cd) (01025)	COPPER, DIS-SOLVED (µg/L as Cu) (01040)	IRON, DIS-SOLVED (µg/L as Fe) (01046)	LEAD, TOTAL RECOV-ERABLE (µg/L as Pb) (01051)	LEAD, DIS-SOLVED (µg/L as Pb) (01049)	MANGA-NESE, DIS-SOLVED (µg/L as Mn) (01056)	MERCURY TOTAL RECOV-ERABLE (µg/L as Hg) (71900)	ZINC, TOTAL RECOV-ERABLE (µg/L as Zn) (01092)	ZINC, DIS-SOLVED (µg/L as Zn) (01090)
JAN 1997											
28...		<1	<1.0	<1.0	40	9	4.0	2.9	<0.10	90	82
JUN											
18...		<1	<1.0	<1.0	40	12	5.0	2.5	<0.10	90	66

K--Results based on colony count outside the acceptable range (non-ideal colony count).